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Patent Application No. 10/002,998

IN THE CLAIMS:

Please cancel claims 17-23 as follows:

Claim 1. (previously presented) A method implemented by at least one computer for encoding knowledge, comprising the steps of:
forming a network having nodes that represent semantic concepts;
associating one or more words with one or more of the nodes;
5 associating multimedia content with one or more of the nodes;
representing relationships between the nodes as arcs between associated words and arcs between associated multimedia content;
receiving a user query for at least one semantic concept;
recursively searching the network for matching multimedia content
10 within the network related to the user query; and
creating a new multimedia presentation from the matching multimedia content within the network.

Claim 2. (original) The method of Claim 1, further comprising:
creating lexical relations between semantic concepts on the basis of one or more of: word forms and word meaning of associated words.

Claim 3. (original) The method of Claim 1, wherein relationships between semantic concepts and between associated content are based at least in part on audio and/or visual feature descriptor values.

Claim 4. (original) The method of Claim 3, further comprising:
extracting feature descriptors from multimedia content; and

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5 one or more nodes, and wherein relationships between the nodes are
represented as arcs between associated words and arcs between associated
multimedia content, the method comprising the steps of:
accepting a query;
matching the query to the words and multimedia content related to
10 the concepts encoded in the media network knowledge representation;
navigating the relationship arcs of the concepts associated with
matching words and multimedia content;
retrieving related concepts, words, and multimedia content from the
matched nodes or related nodes;
15 creating a new multimedia presentation from the matching related
concepts, words, and multimedia content.

Claim 7. (original) The method of Claim 6, further comprising:
forming a query comprised of words; and
matching the query words to the words encoded in the media network
knowledge representation.

Claim 8. (original) The method of Claim 6, further comprising:
forming a query comprised of multimedia content; and
matching the query content to the multimedia content encoded in the
media network knowledge representation.

Claim 9. (previously presented) The method of Claim 6, further
comprising:
forming a query comprised of audio and/or visual feature descriptor
values, wherein the feature descriptor values denote proximity to the
5 semantic concepts of the nodes; and
matching the query descriptor values to the descriptor values of the
content encoded in the media network knowledge representation.

Claim 10. (previously presented) A computer-implemented method for
browsing an encoded media network knowledge representation that comprises
a network having nodes that represent semantic concepts, one or more words
and multimedia associated with the one or more nodes, and wherein
5 relationships between the nodes are represented as arcs between associated
words and arcs between associated multimedia content, the method
comprising the steps of:

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displaying one or more concept nodes and associated words and/or
multimedia content;

10 providing means for allowing a user to select related concepts for
viewing;

receiving a user query for at least one semantic concept;

recursively searching the network for matching multimedia content
within the network related to the user query; and

15 creating a new multimedia presentation from the matching multimedia
content within the network.

Claim 11. (original) The method of Claim 10, further comprising:

providing means for allowing the user to select concept nodes and
associated words and/or multimedia content for display on the basis of
specific types or values of relations to a particular concept node or
5 associated word or multimedia content.

Claim 12. (previously presented) A method implemented by at least
one computer for summarizing an encoded media network knowledge
representation that comprises a network having nodes that represent
semantic concepts, one or more words and multimedia associated with the
5 one or more nodes, and wherein relationships between the nodes are
represented as arcs between associated words and arcs between associated
multimedia content, the method comprising the steps of:

extracting a subset of nodes, relations, and words and/or multimedia
content from an encoded media network knowledge representation;

10 receiving a user query for at least one semantic concept;

recursively searching the network for matching multimedia content
within the network related to the user query; and

creating a new multimedia presentation from the matching multimedia
content within the network.

Claim 13. (original) The method of Claim 12, further comprising:

consolidating together concept nodes, relations, words, and/or
multimedia content.

Claim 14. (previously presented) A method implemented by at least
one computer for updating an encoded media network knowledge

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representation that comprises a network having nodes that represent semantic concepts, one or more words and multimedia associated with the one or more nodes, and wherein relationships between the nodes are represented as arcs between associated words and arcs between associated multimedia content, the method comprising the steps of:

- adding, deleting or modifying concepts, relations, or associated words, multimedia content, or descriptors in the encoded media network knowledge representation;
- receiving a user query for at least one semantic concept;
- recursively searching the network for matching multimedia content within the network related to the user query; and
- creating a new multimedia presentation from the matching multimedia content within the network.

Claim 15. (previously presented) A method implemented by at least one computer for querying a multimedia information repository associated with an encoded media network knowledge representation that comprises an encoded network having nodes that represent semantic concepts, one or more words and multimedia associated with the one or more nodes, and wherein relationships between the nodes are represented as arcs between associated words and arcs between associated multimedia content, the method comprising the steps of:

- searching the encoded media network knowledge representation;
- retrieving words, content, and/or descriptors from the media network knowledge representation;
- searching the information repository using the retrieved words, content, and/or descriptors; and
- creating a new multimedia presentation from the retrieved words, content, and/or descriptors within the network.

Claim 16. (previously presented) A method implemented by at least one computer for personalizing multimedia information in a system comprising an encoded media network knowledge representation that includes an encoded network having nodes that represent semantic concepts, one or more words and multimedia associated with the one or more nodes, and wherein relationships between the nodes are represented as arcs between

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associated words and arcs between associated multimedia content, the method comprising the steps of:

- describing the multimedia information using words or descriptors;
- 10 describing user preferences using words, multimedia content, and/or descriptors;
- matching the user preferences with the descriptions of the multimedia information; and extracting, retrieving, and/or summarizing the matched multimedia items; and
- 15 creating a new multimedia presentation from the matched multimedia items.

Claims 17-23 (canceled)

Claim 24. (previously presented) A computer program product in a computer readable medium for use for encoding knowledge, the computer program product comprising:

- first instructions for forming a network having logical nodes that
- 5 represent semantic concepts;
- second instructions for associating one or more words with one or more of the nodes;
- third instructions for associating multimedia content with one or more of the nodes;
- 10 fourth instructions for representing relationships between the nodes as arcs between associated words and arcs between associated multimedia content;
- fifth instructions for receiving a user query for at least one semantic concept;
- 15 sixth instructions for recursively searching the network for matching multimedia content within the network related to the user query; and
- seventh instructions for creating a new multimedia presentation from the matching multimedia content within the network.

Claim 25. (previously presented) The method of claim 1, wherein the relationships between the nodes are based, at least in part, on the features of the multimedia content.

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Claim 26. (previously presented) The method of claim 1, wherein the relationships between the nodes denote similarity of semantic concepts.

Claim 27. (canceled)

Claim 28. (previously presented) The method of claim 1, further comprising displaying the new multimedia presentation on a monitor.